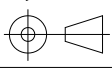



mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family 580F				CODE JP											
ltr		ecn no		dr		date		tolerances unless otherwise specified				title 1mm SPACING FPC CONNECTOR DOCUMENT LIST (Cat. No. : HFW__S-2STAE1HLF)													
A				N.S		2018-02-09		angles										linear							
B		ELX-J-38365		S.W		2020-09-17		0°±x'																	
								dr		S.Watanabe		2020-09-16		dwg no sheet 1 of 7 size 10147265 A4											
								engr		S.Watanabe		2020-09-16													
								chr		SH.Thio		2020-09-17													
								appd		Y.Kameda		2020-09-17													
sheet index		revision sheet		B 1		B 2		B 3		B 4		B 5		B 6		B 7		Amphenol FCi		scale NTS		type Product Customer Drawing		Rev. B	



## CAT. NO. &amp; DIMENSIONS

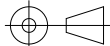

(NOTE 3)	NO. OF CONTACTS (n)	CAT. NO.	DIMENSIONS (NOTE2)				
			A ± 0.2	B ± 0.2	C ± 0.2	D ± 0.2	E ± 0.2
	4	HFW4S-2STA__HLF	7	5.14	3	—	—
	5	HFW5S-2STA__HLF	8	6.14	4	—	—
	6	HFW6S-2STA__HLF	9	7.14	5	—	—
	7	HFW7S-2STA__HLF	10	8.14	6	—	—
	8	HFW8S-2STA__HLF	11	9.14	7	—	—
	9	HFW9S-2STA__HLF	12	10.14	8	0.35	7.3
	10	HFW10S-2STA__HLF	13	11.14	9	0.35	8.3
	11	HFW11S-2STA__HLF	14	12.14	10	1.35	7.3
	12	HFW12S-2STA__HLF	15	13.14	11	1.35	8.3
	13	HFW13S-2STA__HLF	16	14.14	12	2.35	7.3
	14	HFW14S-2STA__HLF	17	15.14	13	2.35	8.3
	15	HFW15S-2STA__HLF	18	16.14	14	3.35	7.3
	16	HFW16S-2STA__HLF	19	17.14	15	3.35	8.3
	17	HFW17S-2STA__HLF	20	18.14	16	4.35	7.3
	18	HFW18S-2STA__HLF	21	19.14	17	4.35	8.3
	19	HFW19S-2STA__HLF	22	20.14	18	5.35	7.3
	20	HFW20S-2STA__HLF	23	21.14	19	5.35	8.3
	21	HFW21S-2STA__HLF	24	22.14	20	6.35	7.3
	22	HFW22S-2STA__HLF	25	23.14	21	6.35	8.3
	23	HFW23S-2STA__HLF	26	24.14	22	7.35	7.3
	24	HFW24S-2STA__HLF	27	25.14	23	7.35	8.3
	25	HFW25S-2STA__HLF	28	26.14	24	8.35	7.3
	26	HFW26S-2STA__HLF	29	27.14	25	8.35	8.3
	27	HFW27S-2STA__HLF	30	28.14	26	9.35	7.3
	28	HFW28S-2STA__HLF	31	29.14	27	9.35	8.3
	29	HFW29S-2STA__HLF	32	30.14	28	10.35	7.3
	30	HFW30S-2STA__HLF	33	31.14	29	10.35	8.3
*	31	HFW31S-2STA__HLF	34	32.14	30	11.35	7.3
	32	HFW32S-2STA__HLF	35	33.14	31	11.35	8.3
*	33	HFW33S-2STA__HLF	36	34.14	32	12.35	7.3

CAT. NO.

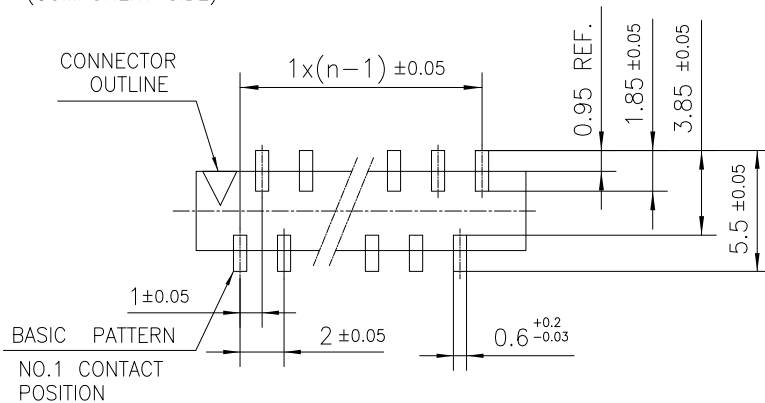
	HFW	(n)	S-2	ST	A	—	H	LF
SERIES	—	—	—	—	—	—	—	—
NO. OF CONTACTS	—	—	—	—	—	—	—	—
STRAIGHT TYPE	—	—	—	—	—	—	—	—
FOR FPC / FFC	—	—	—	—	—	—	—	—
FOR AUTOMATIC MOUNTING (SMT)	—	—	—	—	—	—	—	—
VARIATION GOLD PLATING	—	—	—	—	—	—	—	—
PACKAGE STYLE	—	—	—	—	—	—	—	—
HALOGEN FREE	—	—	—	—	—	—	—	—
LEAD FREE	—	—	—	—	—	—	—	—

## NOTES

1. THIS PRODUCT IS THE CONNECTOR DSIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~E.
3. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 580F						CODE JP										
ltr	ecn no	dr	date	tolerances unless otherwise specified							title CAT NO. TABLE FOR 1mm SPACING SMT CONNECTOR (CAT.No.HFW__S-2STA__HLF)															
B				angles		linear		--																		
				0°±x°				--																		
					dr		S.Watanabe		2020-09-16		dwg no sheet 2 of 7 10147265 A4															
					engr		S.Watanabe		2020-09-16																	
					chr		SH.Thio		2020-09-17																	
					appd		Y.Kameda		2020-09-17		type Product Customer Drawing															
sheet index		revision sheet																								Rev. B



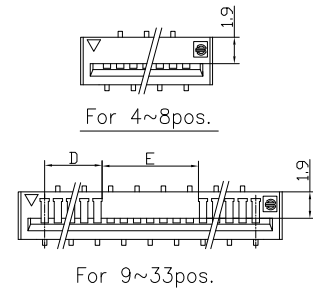
RECOMMENDED PC BOARD LAYOUT  
(COMPONENT SIDE)

PT. NO.	PARTS NAME	MATERIAL	Q'TY	NOTE
1	HOUSING (HALOGEN FREE)	LCP RESIN GLASS REINFORCED (UL94V-0)	1	COLOR : BLACK
2	CONTACT	PHOSPHOR BRONZE	n	PLATING : GOLD

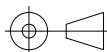


n : NO. OF CONTACTS

## NOTES

- THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COTES WITH AUTOMATIC MOUNTING (SMT).
- FLATNESS OF CONTACT TERMINAL MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
- THIS DIMENSION IS SPACE FOR THE NOZZLE OF MOUNTER. PRODUCT BELOW 8 POS. HAVE WHOLE FLAT SURFACE AS SHOWN IN A FIGURE.



- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
- THE HOUSING WILL WITHSTAND EXPOSURE TO  $260^{\circ}\text{C}$  PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

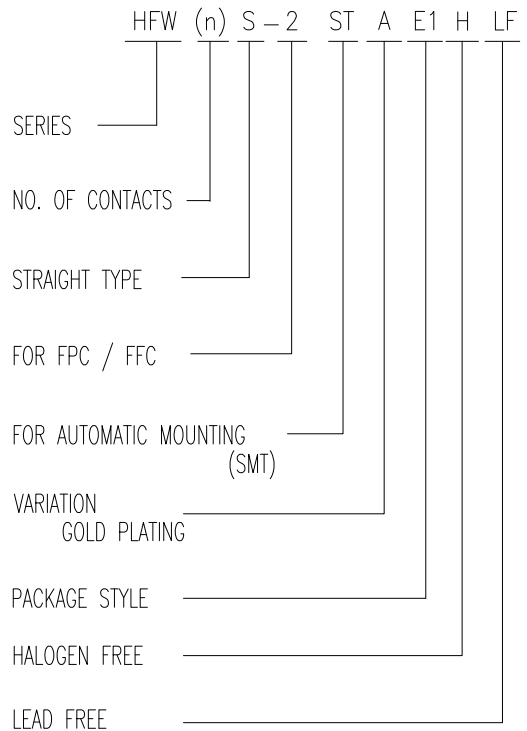
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 580F				CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified				 mm scale NTS		title 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (CAT.No.HFW__S-2STA__HLF)						
B				angles	linear	±0.2										
						±0.2										
				0°±x°		±0.2										
				dr	S.Watanabe		2020-09-16				dwg no sheet 3 of 7				size A4	
				engr	S.Watanabe		2020-09-16									
				chr	SH.Thio		2020-09-17									
				appd	Y.Kameda		2020-09-17				type Product Customer Drawing					
sheet index		revision sheet													Rev. B	



## CAT. NO. &amp; DIMENSIONS

(NOTE.4)	NO. OF CONTACTS (n)	CAT. NO. (NOTE2)	DIMENSIONS (NOTE3)		
			F ± 5	G ± 0.3	H ± 0.1
	4	HFW4S-2STAE1HLF	28.4	24	—
	5	HFW5S-2STAE1HLF	28.4	24	—
	6	HFW6S-2STAE1HLF	28.4	24	—
	7	HFW7S-2STAE1HLF	28.4	24	—
	8	HFW8S-2STAE1HLF	28.4	24	—
	9	HFW9S-2STAE1HLF	28.4	24	—
	10	HFW10S-2STAE1HLF	28.4	24	—
	11	HFW11S-2STAE1HLF	28.4	24	—
	12	HFW12S-2STAE1HLF	28.4	24	—
	13	HFW13S-2STAE1HLF	28.4	24	—
	14	HFW14S-2STAE1HLF	36.4	32	28.4
	15	HFW15S-2STAE1HLF	36.4	32	28.4
	16	HFW16S-2STAE1HLF	36.4	32	28.4
	17	HFW17S-2STAE1HLF	36.4	32	28.4
	18	HFW18S-2STAE1HLF	48.4	44	40.4
	19	HFW19S-2STAE1HLF	48.4	44	40.4
	20	HFW20S-2STAE1HLF	48.4	44	40.4
	21	HFW21S-2STAE1HLF	48.4	44	40.4
	22	HFW22S-2STAE1HLF	48.4	44	40.4
	23	HFW23S-2STAE1HLF	48.4	44	40.4
	24	HFW24S-2STAE1HLF	48.4	44	40.4
	25	HFW25S-2STAE1HLF	48.4	44	40.4
	26	HFW26S-2STAE1HLF	48.4	44	40.4
	27	HFW27S-2STAE1HLF	48.4	44	40.4
	28	HFW28S-2STAE1HLF	48.4	44	40.4
	29	HFW29S-2STAE1HLF	60.4	56	52.4
	30	HFW30S-2STAE1HLF	60.4	56	52.4
*	31	HFW31S-2STAE1HLF	60.4	56	52.4
	32	HFW32S-2STAE1HLF	60.4	56	52.4
*	33	HFW33S-2STAE1HLF	60.4	56	52.4

CAT. NO.



1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPES WITH AUTOMATIC MOUNTING (SMT).

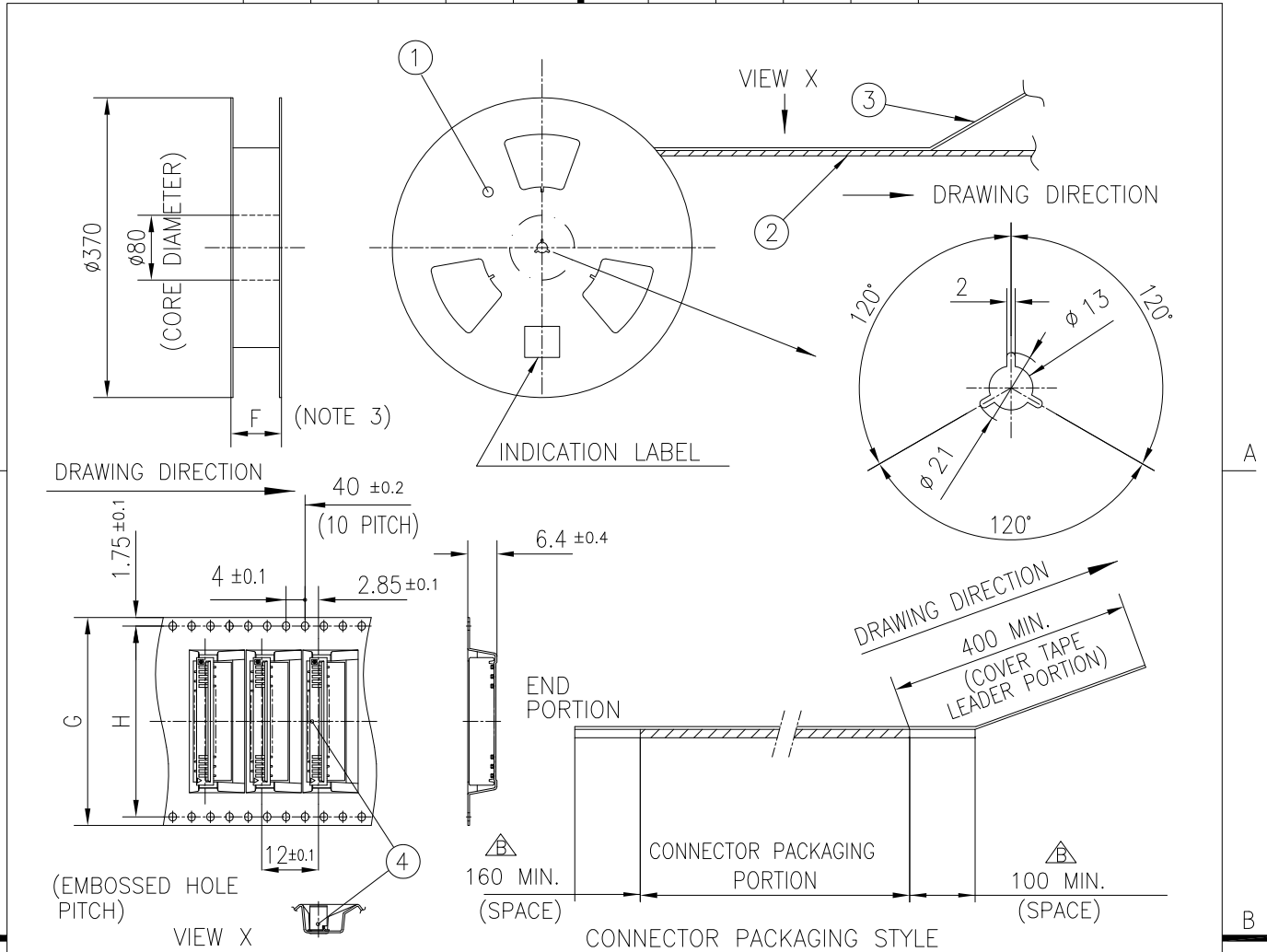
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.

3. SEE PART DRAWINGS FOR DIMENSIONS F~H.

4. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection		product family 580F				CODE JP	
ltr	ecn no	dr	date	tolerances unless otherwise specified				 mm		title CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (CAT.No.HFW__S-2STAE1HLF)					
B				angles	linear	--									
				0°±x'		--									
				dr	S.Watanabe	2020-09-16									
				engr	S.Watanabe	2020-09-16			dwg no 10147265 sheet 4 of 7 size A4						
				chr	SH.Thio	2020-09-17									
				appd	Y.Kameda	2020-09-17									
sheet index		revision sheet													

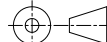
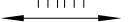





PT. NO.	PARTS NAME	CAT. NO.	MATERIAL	Q'TY	NOTE
1	REEL	_____	△ CARDBOARD	1	COLOR:GRAY
2	PLASTIC (EMBOSSED) TAPE	_____	△ PS	_____	COLOR:TRANSPARENCY
3	COVER	_____	△ POLYESTER, POLYETHYLENE	_____	COLOR:TRANSPARENCY
4	CONNECTOR	HFW__S-2STA__HLF	SEE ATTACHED DWG.	1000	_____

## NOTES

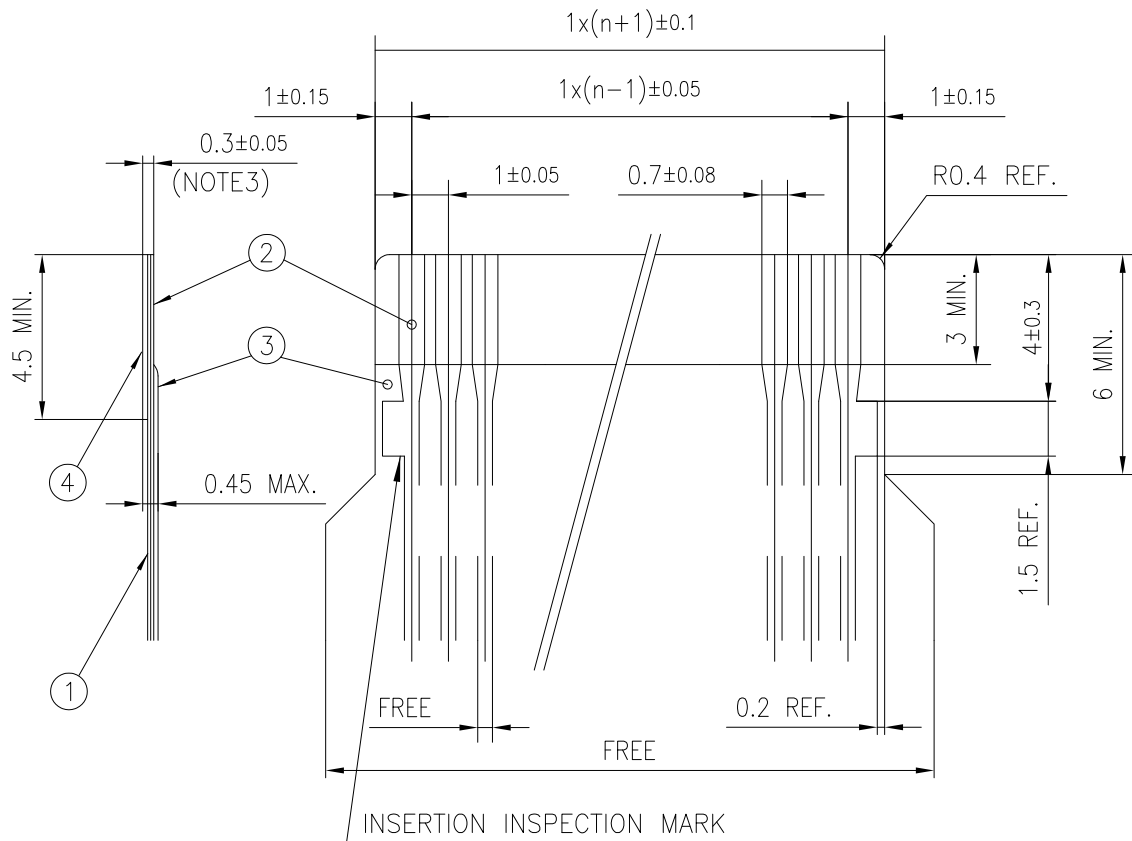
- THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSED) TAPE AND REEL.
- F DIMENSION IS PORTION OF THE CORE.

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family 580F						CODE JP				
ltr	ecn no	dr	date	tolerances unless otherwise specified				 mm		title PLASTIC TAPE PACKAGED 1mm SPACING SMT CONNECTOR (Cat. No. : HFW__S-2STAE1HLF)										
B				angles	linear		±5													
							±5													
				0°±x°				±5	scale NTS											
				dr	S.Watanabe		2020-09-16				dwg no						sheet 5 of 7		size	
				engr	S.Watanabe		2020-09-16				10147265						A4			
				chr	SH.Thio		2020-09-17													
				appd	Y.Kameda		2020-09-17													
sheet index		revision															Rev.			
		sheet															B			



## RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



PT. NO.	DISCRIPTION	MATERIAL	THICKNESS (um)
1	BASE FILM	POLYIMIDE OR POLYESTER OR EQUIVALENT	25
2	CONDUCTOR	COPPER FOIL (PLATING : GOLD)	35
3	OVERLAY	POLYIMIDE OR POLYESTER OR EQUIVALENT	—
4	SUPPORTING TAPE	POLYESTER OR POLYIMIDE OR EQUIVALENT	188

## NOTES

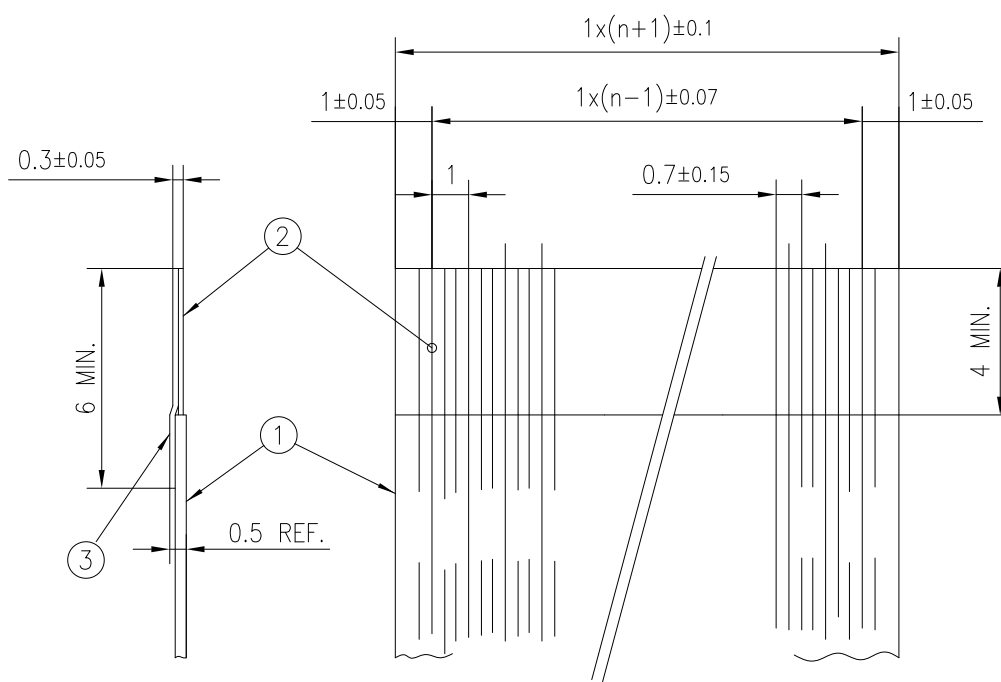
1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family 580F	CODE JP
ltr	ecn no	dr	date	tolerances unless otherwise specified		 mm scale NTS	title RECOMMENDED CABLE (CAT.No.HFW__S-2STA__)	
B				angles	linear			
				0°±x°				
				dr	S.Watanabe	2020-09-16		
				engr	S.Watanabe	2020-09-16	dwg no 10147265	
				chr	SH.Thio	2020-09-17		
				appd	Y.Kameda	2020-09-17	type Product Customer Drawing	
sheet index	revision sheet							
							Rev. B	



RECOMMENDED CABLE (FFC)




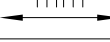

n : NO. OF CONDUCTOR



PT. NO.	DESCRIPTION	MATERIAL	NOTE
1	INSULATOR	FLAME RESISTING POLYESTER OR EQUIVALENT	_____
2	CONDUCTOR	COPPER FOIL	PLATING : GOLD
3	SUPPORTING TAPE	FLAME RESISTING POLYESTER OR EQUIVALENT	_____

## NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family 580F						CODE JP		
ltr	ecn no	dr	date	tolerances unless otherwise specified				 mm 	title RECOMMENDED CABLE (CAT.No.HFW__S-2STA__)									
B				angles	linear	--												
				0°±x°		--												
				dr	S.Watanabe		2020-09-16		 scale NTS 	dwg no						sheet 7 of 7		size
				engr	S.Watanabe		2020-09-16			10147265						A4		
				chr	SH.Thio		2020-09-17											
				appd	Y.Kameda		2020-09-17											
sheet index		revision sheet															Rev. B	